

Figure 1
AT9-98-820

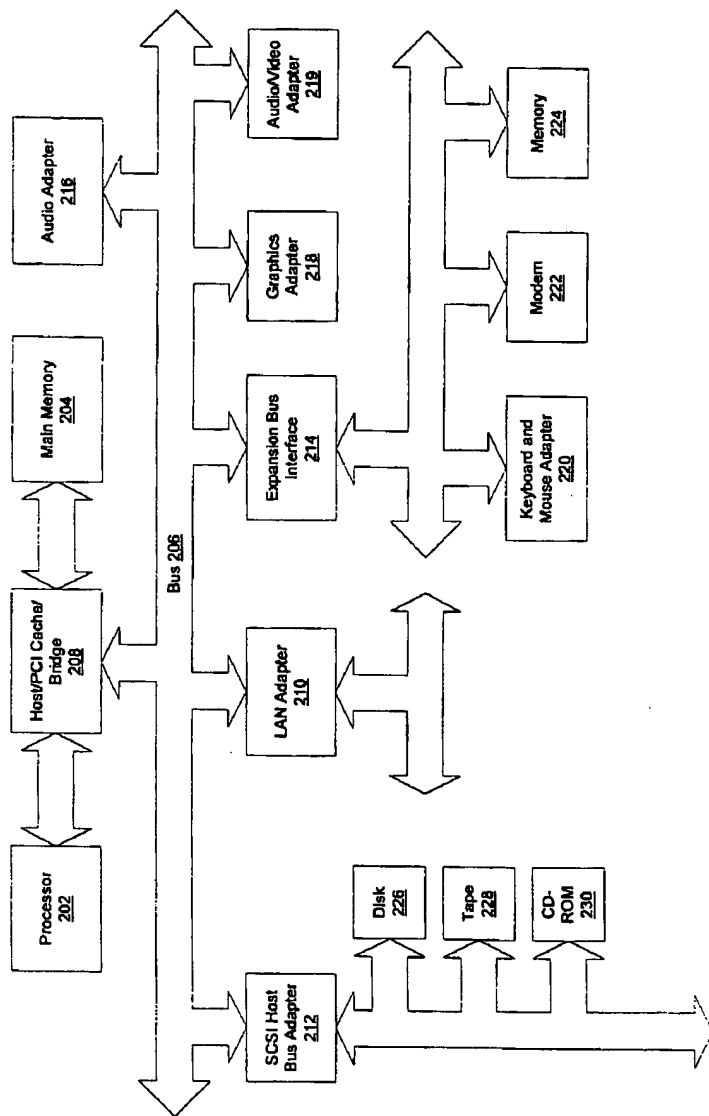
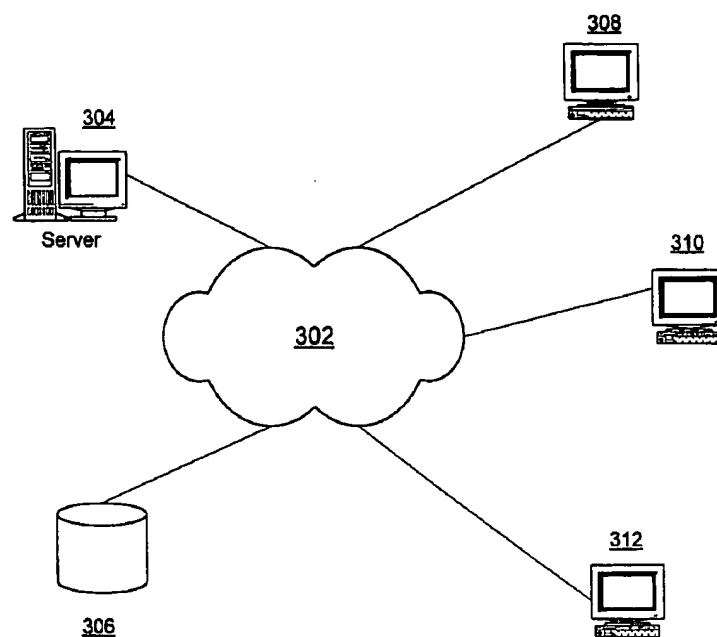


Figure 2

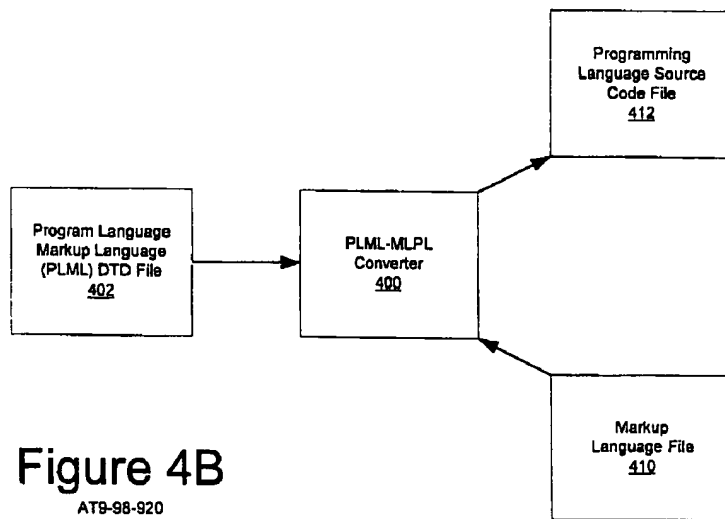
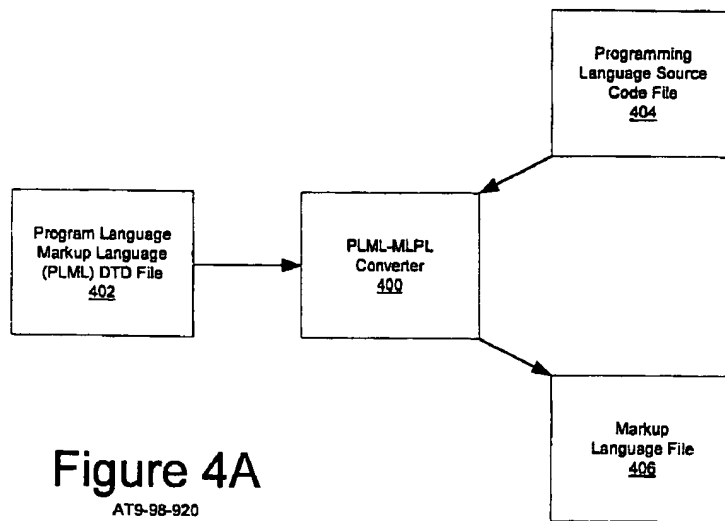
AT9-98-920



300
Network
Figure 3

AT9-98-920

663050" 66750260



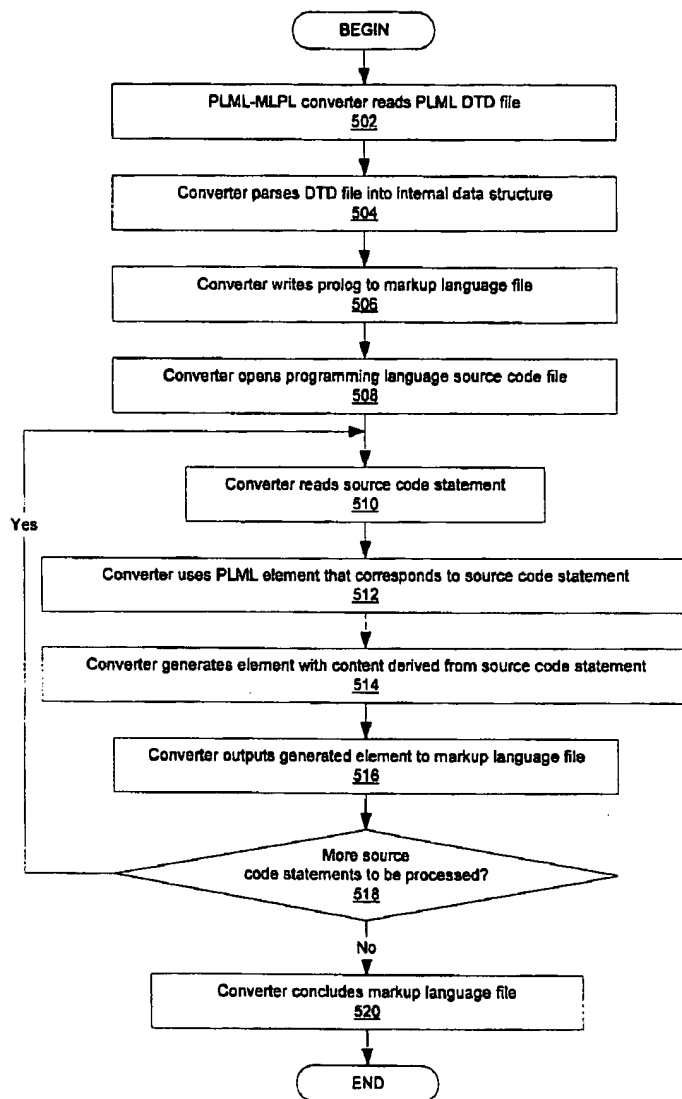


Figure 5

AT9-98-920

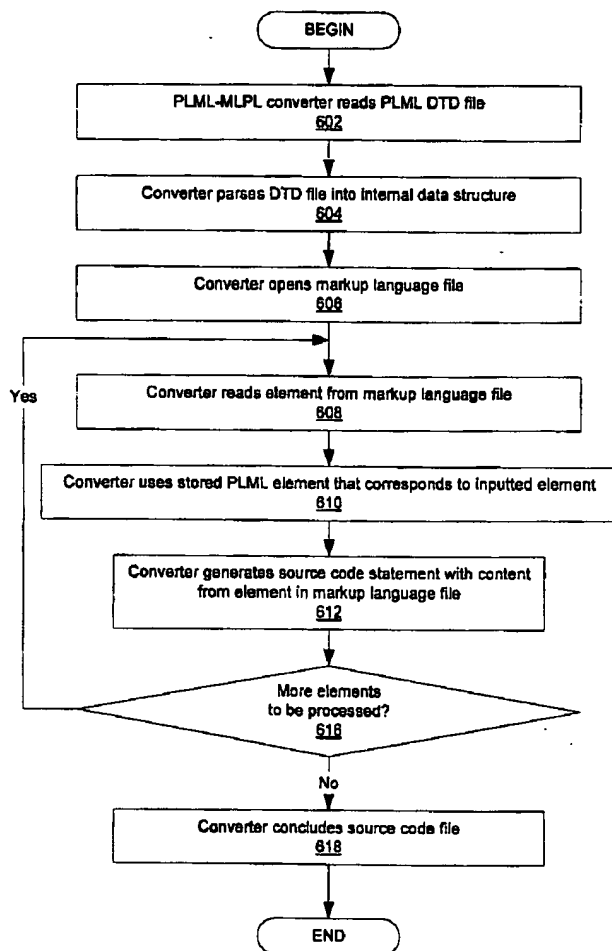


Figure 6

AT9-98-920

```

702 { < ! ENTITY % base_content_model '(functionA | functionB)'>

704 { < ! ELEMENT plml % base_content_model;>

706 { < ! ELEMENT functionA EMPTY>
      < ! ATTLIST functionA arg1 CDATA #REQUIRED
      arg2 CDATA #REQUIRED
    }

708 { < ! ELEMENT functionB EMPTY>
      < ! ATTLIST functionB arg1 CDATA #REQUIRED
    }
    < ! -- End of DTD for Programming Language Markup Language-->

```

Figure 7

AT9-98-920

```

800 {
    802 { main programA ( ){
          integer temp;
          initProg ( );
          temp = functionA (5,7);
          temp = functionB (25);
        }
    804 {
    806 {

```

Figure 8

AT9-98-920

09206109-050509

63030"03F30E60

900 {

902 { < ? plml version = "1.0"?>
< ! DOCTYPE plml SYSTEM "plml.dtd">

904 { < plml>

906 { < ! - main programA () { -->
< ! - integer temp; -->
< ! - initProg (); -->

908 { < functionA arg1="5" arg2="7" />

910 { < functionB arg1="25" />

912 { < ! - } -->

914 { < / plml >

Figure 9A

AT9-98-920

920 {

922 { < ? plml version = "1.0"?>
< ! DOCTYPE plml SYSTEM "plml.dtd">

924 { < plml >

926 { < functionA arg1="5" arg2="7" />

928 { < functionB arg1="25" />

930 { < /plml >

Figure 9B

AT9-98-920

669950" 63F99960

```

900 {
  902 { < ? plml version = "1.0"?>
      < ! DOCTYPE plml SYSTEM "plml.dtd">
  904 { < plml >
  906 { < ! -- main programA ( ) { -->
      < ! -- integer temp; -->
      < ! -- initProg ( ); -->
  908 { < functionA arg1="5" arg2="7" />
  910 { < functionB arg1="25" />
  912 { < ! -- } -->
  914 { < / plml >

```

Figure 9A

AT9-98-920

```

920 {
  922 { < ? plml version = "1.0"?>
      < ! DOCTYPE plml SYSTEM "plml.dtd">
  924 { < plml >
  926 { < functionA arg1="5" arg2="7" />
  928 { < functionB arg1="25" />
  930 { < /plml >

```

Figure 9B

AT9-98-920

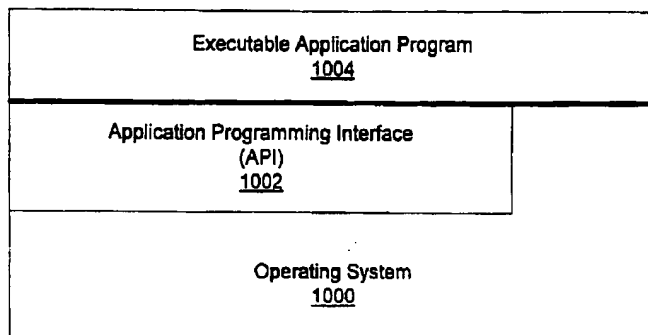


Figure 10A

AT9-98-920

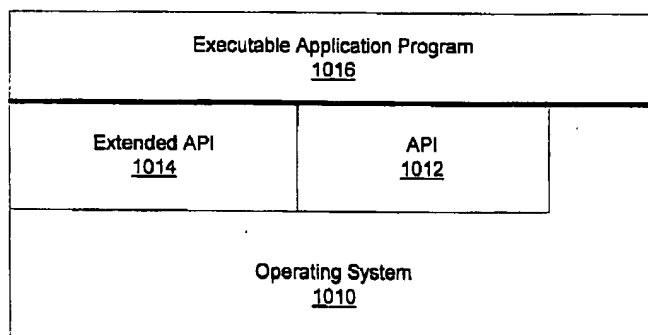


Figure 10B

AT9-98-920

653030" 63T30E60

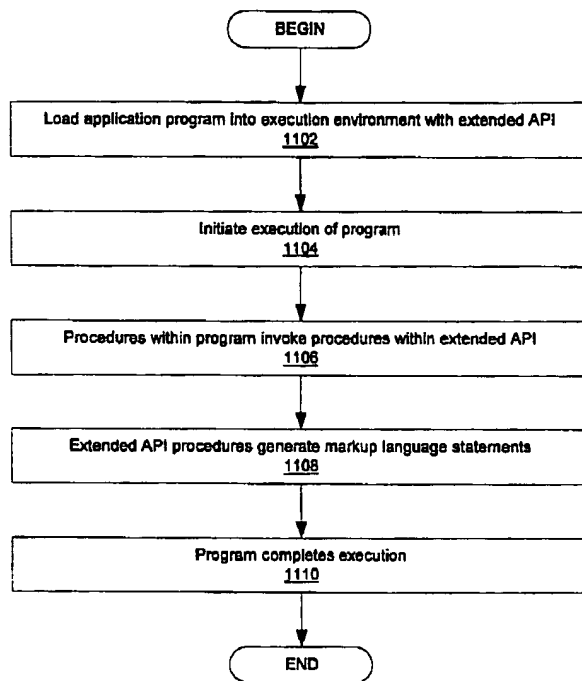


Figure 11

AT9-98-920

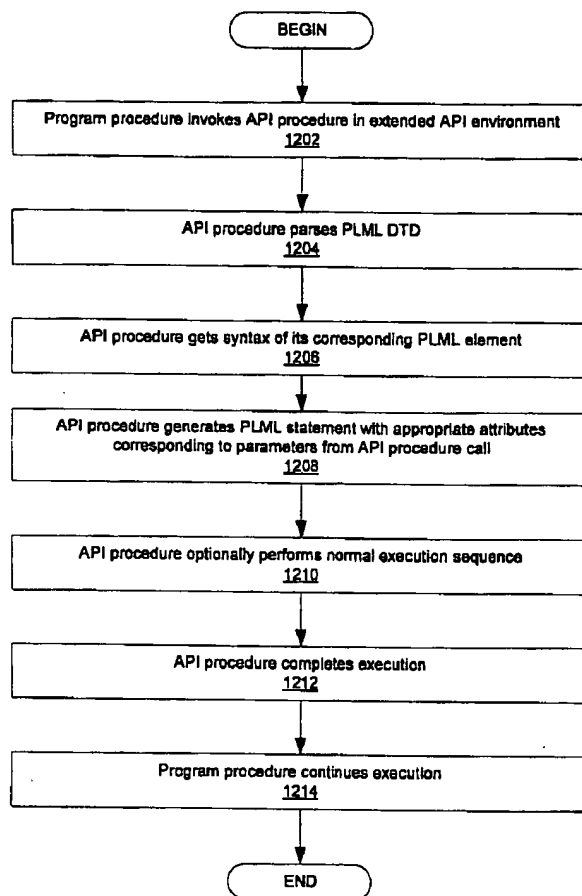


Figure 12

AT9-98-920



AT9-98-920

```

<!-- Java Graphics Markup Language (JGML) Document Type Definition (DTD) -->
<!ENTITY % base_content_model
'copyArea | drawLine | fillRect | drawRect | clearRect |
drawRoundRect | fillRoundRect | draw3Drect | fill3Drect|
drawOval | fillOval | drawArc | fillArc | drawPolyline|
drawPolygon | fillPolygon | drawString | drawChars|
drawBytes | drawImage | dispose | finalize | clipRect|
setClip | setColor | setPaintMode | translate | setXORMode |
setFont)*'
>
<!ELEMENT jgml %base_content_model;>
<!ELEMENT copyArea EMPTY>
<!ATTLIST
    copyArea
        x CDATA #REQUIRED
        y CDATA #REQUIRED
        width CDATA #REQUIRED
        height CDATA #REQUIRED
        dx CDATA #REQUIRED
        dy CDATA #REQUIRED
>
<!ELEMENT drawLine EMPTY>
<!ATTLIST
    drawLine
        x1 CDATA #REQUIRED
        y1 CDATA #REQUIRED
        x2 CDATA #REQUIRED
        y2 CDATA #REQUIRED
>
<!ELEMENT fillRect EMPTY>
<!ATTLIST
    fillRect
        x CDATA #REQUIRED
        y CDATA #REQUIRED
        width CDATA #REQUIRED
        height CDATA #REQUIRED
>
<!ELEMENT drawRect EMPTY>
<!ATTLIST
    drawRect
        x CDATA #REQUIRED
        y CDATA #REQUIRED
        width CDATA #REQUIRED
        height CDATA #REQUIRED
>
<!ELEMENT clearRect EMPTY>
<!ATTLIST
    clearRect
        x CDATA #REQUIRED
        y CDATA #REQUIRED
        width CDATA #REQUIRED
        height CDATA #REQUIRED
>

```

Figure 15A

AT9-98-920

```

<!ELEMENT drawRoundRect EMPTY>
<!ATTLIST
    drawRoundRect      x          CDATA      #REQUIRED
                      y          CDATA      #REQUIRED
                      width       CDATA      #REQUIRED
                      height      CDATA      #REQUIRED
                      arcWidth    CDATA      #REQUIRED
                      arcHeight   CDATA      #REQUIRED
>
<!ELEMENT fillRoundRect EMPTY>
<!ATTLIST
    fillRoundRect      x          CDATA      #REQUIRED
                      y          CDATA      #REQUIRED
                      width       CDATA      #REQUIRED
                      height      CDATA      #REQUIRED
                      arcWidth    CDATA      #REQUIRED
                      arcHeight   CDATA      #REQUIRED
>
<!ELEMENT draw3DRect  EMPTY>
<!ATTLIST
    draw3DRect         x          CDATA      #REQUIRED
                      y          CDATA      #REQUIRED
                      width       CDATA      #REQUIRED
                      height      CDATA      #REQUIRED
                      raised      CDATA      #REQUIRED
>
<!ELEMENT fill3DRect  EMPTY>
<!ATTLIST
    fill3DRect         x          CDATA      #REQUIRED
                      y          CDATA      #REQUIRED
                      width       CDATA      #REQUIRED
                      height      CDATA      #REQUIRED
                      raised      CDATA      #REQUIRED
>
<!ELEMENT drawOval    EMPTY>
<!ATTLIST
    drawOval           x          CDATA      #REQUIRED
                      y          CDATA      #REQUIRED
                      width       CDATA      #REQUIRED
                      height      CDATA      #REQUIRED
>
<!ELEMENT fillOval    EMPTY>
<!ATTLIST
    fillOval           x          CDATA      #REQUIRED
                      y          CDATA      #REQUIRED
                      width       CDATA      #REQUIRED
                      height      CDATA      #REQUIRED
>

```

Figure 15B

AT9-98-920

<!ELEMENT drawArc	EMPTY>		
<!ATTLIST			
drawArc	x	CDATA	#REQUIRED
	y	CDATA	#REQUIRED
	width	CDATA	#REQUIRED
	height	CDATA	#REQUIRED
	startAngle	CDATA	#REQUIRED
	arcAngle	CDATA	#REQUIRED
>			
<!ELEMENT fillArc	EMPTY>		
<!ATTLIST			
fillArc	x	CDATA	#REQUIRED
	y	CDATA	#REQUIRED
	width	CDATA	#REQUIRED
	height	CDATA	#REQUIRED
	startAngle	CDATA	#REQUIRED
	arcAngle	CDATA	#REQUIRED
>			
<!ELEMENT drawPolyLine	EMPTY>		
<!ATTLIST			
drawPolyLine	xPoints	CDATA	#REQUIRED
	yPoints	CDATA	#REQUIRED
	nPoints	CDATA	#REQUIRED
>			
<!ELEMENT drawPolygon	EMPTY>		
<!ATTLIST			
drawPolygon	xPoints	CDATA	#IMPLIED
	yPoints	CDATA	#IMPLIED
	nPoints	CDATA	#IMPLIED
	p	CDATA	#IMPLIED
>			
<!ELEMENT fillPolygon	EMPTY>		
<!ATTLIST			
fillPolygon	xPoints	CDATA	#IMPLIED
	yPoints	CDATA	#IMPLIED
	nPoints	CDATA	#IMPLIED
	Polygon	CDATA	#IMPLIED
>			
<!ELEMENT drawString	EMPTY>		
<!ATTLIST			
drawString	str	CDATA	#REQUIRED
	x	CDATA	#REQUIRED
	y	CDATA	#REQUIRED
>			

Figure 15C

AT9-98-920

```

<!ELEMENT drawChars      EMPTY>
<!ATTLIST
    drawChars      data      CDATA      #REQUIRED
                   offset    CDATA      #REQUIRED
                   length    CDATA      #REQUIRED
                   x          CDATA      #REQUIRED
                   y          CDATA      #REQUIRED
>
<!ELEMENT drawBytes      EMPTY>
<!ATTLIST
    drawBytes      offset    CDATA      #REQUIRED
                   length    CDATA      #REQUIRED
                   x          CDATA      #REQUIRED
                   y          CDATA      #REQUIRED
>
<!ELEMENT drawImage      EMPTY>
<!ATTLIST
    drawImage      img       CDATA      #REQUIRED
                   x         CDATA      #IMPLIED
                   y         CDATA      #IMPLIED
                   width     CDATA      #IMPLIED
                   height    CDATA      #IMPLIED
                   dx1       CDATA      #IMPLIED
                   dy1       CDATA      #IMPLIED
                   dx2       CDATA      #IMPLIED
                   dy2       CDATA      #IMPLIED
                   sx1       CDATA      #IMPLIED
                   sy1       CDATA      #IMPLIED
                   sx2       CDATA      #IMPLIED
                   sy2       CDATA      #IMPLIED
                   bgcolor    CDATA      #IMPLIED
                   observer   CDATA      #REQUIRED
>
<!ELEMENT dispose      EMPTY>
<!ELEMENT finalize     EMPTY>
<!ELEMENT clipRect     EMPTY>
<!ATTLIST
    clipRect      x          CDATA      #REQUIRED
                   y          CDATA      #REQUIRED
                   width     CDATA      #REQUIRED
                   height    CDATA      #REQUIRED
>

```

Figure 15D

AT9-98-920

```
<!ELEMENT setClip          EMPTY>
<!ATTLIST
    setClip                x            CDATA    #IMPLIED
                           y            CDATA    #IMPLIED
                           width        CDATA    #IMPLIED
                           height       CDATA    #IMPLIED
                           clip         CDATA    #IMPLIED
>
<!ELEMENT setColor          EMPTY>
<!ATTLIST
    setColor                color       CDATA    #REQUIRED
<!ELEMENT setPaintmode      EMPTY>
<!ELEMENT translate         EMPTY>
<!ATTLIST
    translate                x          CDATA    #REQUIRED
                           y          CDATA    #REQUIRED
>
<!ELEMENT setXORMode        EMPTY>
<!ATTLIST
    setXORMode              cl         CDATA    #REQUIRED
>
<!ELEMENT setFont           EMPTY>
<!ATTLIST
    setFont                  font      CDATA    #REQUIRED
>
<!-- End of DTD for Java Graphics Markup Language -->
```

Figure 15E

AT9-98-920

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- **clearRect** (int, int, int, int)
Clears the specified rectangle by filling it with the background color of the current drawing surface.
- **clipRect** (int, int, int, int)
Intersects the current clip with the specified rectangle.
- **copyArea** (int, int, int, int, int, int)
Copies an area of the component by a distance specified by dx and dy.
- **create** ()
Creates a new Graphics object that is a copy of this Graphics object.
- **create** (int, int, int, int)
Creates a new Graphics object based on this Graphics object, but with a new translation and clip area.
- **dispose** ()
Disposes of this graphics context and releases any system resources that it is using.
- **draw3DRect** (int, int, int, int, boolean)
Draws a 3-D highlighted outline of the specified rectangle.
- **drawArc** (int, int, int, int, int, int)
Draws the outline of a circular or elliptical arc covering the specified rectangle.
- **drawBytes** (byte[], int, int, int, int)
Draws the text given by the specified byte array, using this graphics context's current font and color.
- **drawChars** (char[], int, int, int, int)
Draws the text given by the specified character array, using this graphics context's current font and color.
- **drawImage** (Image, int, int, Color, ImageObserver)
Draws as much of the specified image as is currently available.
- **drawImage** (Image, int, int, int, int, Color, ImageObserver)
Draws as much of the specified image as has already been scaled to fit inside the specified rectangle.
- **drawImage** (Image, int, int, int, int, int, ImageObserver)
Draws as much of the specified image as has already been scaled to fit inside the specified rectangle.
- **drawImage** (Image, int, int, int, int, int, int, int, int, Color, ImageObserver)
Draws as much of the specified area of the specified image as is currently available, scaling it on the fly to fit inside the specified area of the destination drawable surface.
- **drawImage** (Image, int, int, int, int, int, int, int, int, ImageObserver)
Draws as much of the specified area of the specified image as is currently available, scaling it on the fly to fit inside the specified area of the destination drawable surface.
- **drawLine** (int, int, int, int)
Draws a line, using the current color, between the points (x1, y1) and (x2, y2) in this graphics context's coordinate system.
- **drawOval** (int, int, int, int)
Draws the outline of an oval.
- **drawPolygon** (int[], int[], int)
Draws a closed polygon defined by arrays of x and y coordinates.
- **drawPolygon** (Polygon)
Draws the outline of a polygon defined by the specified Polygon object.
- **drawPolyline** (int[], int[], int)
Draws a sequence of connected lines defined by arrays of x and y coordinates.
- **drawRect** (int, int, int, int)
Draws the outline of the specified rectangle.
- **drawRoundRect** (int, int, int, int, int, int)
Draws an outlined round-cornered rectangle using this graphics context's current color.

Figure 16A

AT9-98-920

- Figure 16B**

AT9-98-920

1700 {
1702 { < ! ELEMENT drawLine EMPTY>
1706 { < ! ATTLIST drawLine x1 CDATA #REQUIRED
x2 CDATA #REQUIRED
y1 CDATA #REQUIRED
y2 CDATA #REQUIRED
>
1704 { < ! ELEMENT clearRect EMPTY>
1708 { < ! ATTLIST clearRect x CDATA #REQUIRED
y CDATA #REQUIRED
width CDATA #REQUIRED
height CDATA #REQUIRED
>
>

Figure 17

AT9-98-920

1800 {
1802 - drawLine (23, 43, 50, 60);
1804 - drawLine (50, 60, 27, 80);
1806 - clearRect (0, 0, 10, 10);
>

Figure 18

AT9-98-920

663030" 63430260

1900 { 1902 - < drawLine x1="23" y1="43" x2="50 y2="60" / >
1904 - < drawLine x1="50" y1="60" x2="27 y2="80" / >
1906 - < clearRect x="0" y="0" width="10" height="10" / >
< ? xml version="1.0" ? >
< !DOCTYPE jgml SYSTEM "jgml.dtd" >
< jgml >
< /jgml >

Figure 19

AT9-98-920

050619-05069
050619-05069